

BALTIMORE COUNTY, MARYLAND  
PURCHASING DIVISION  
400 WASHINGTON AVENUE, ROOM 148  
TOWSON, MARYLAND 21204-4665



**REQUEST FOR BID NO. B-1059**

**SANITARY SEWER/STORM DRAIN CUT & COVER, ON-CALL,  
TERM CONTRACT**

REVISED Due Date: 11/4/16, Time: 3:00 PM

**AMENDMENT NO. 4  
DATED 10/31/16**

KATHY MADARY, C.P.M., STAFF BUYER  
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**PLEASE SIGN BELOW ACKNOWLEDGING RECEIPT OF THIS  
ADDENDUM AND RETURN WITH YOUR BID.**

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Company Name

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Signature

**BALTIMORE COUNTY, MARYLAND  
REQUEST FOR BID NO. B-1059  
SANITARY SEWER/STORM DRAIN CUT & COVER, ON-CALL, TERM CONTRACT**

**AMENDMENT NO. 4**

**The following questions and answers are issued for this solicitation.**

- 1.**     Question:     On Price Sheet page 19 of 21, Line #196 – Quantity of 12 alarm panel and Disconnect Panel and Wiring: Is this just 12 “additional” alarm panels for the Grinder Pump Stations?

Answer:        Yes. Each one of these is a separate pay item for additional panels and wiring. For line items 192-193, the simplex grinder pumps, the cost for each one should include an alarm panel and disconnect. For line items 194 – 195, the duplex pump costs should include 2 alarm panels and disconnects because there are two pumps.
  
- 2.**     Question:     On Page 83 of 117, Section 2.7.22 .1 - What is the quantity of “Spare Units” required? Does “Spare Unit” include: Grinder Pump, Level Control, Control Panel and a 1000 ft. spool of direct burial cable (to wire pump and level control from basin to alarm panel)?

Answer:        No spare units are required on this contract.
  
- 3.**     Question:     Can we see the bid tabs from the 2011 cut and cover bid?

Answer:        The bid tab is attached.
  
- 4.**     All other terms and conditions remain the same.

RFB #B-395  
Sanitary Sewer Storm Drain Cut Cover, On-Call, Term Contract

	<b>CL Descriptions</b>	<b>UM</b>	<b>Qty</b>	<b>Angelozzi Bros.</b>		<b>Iacoboni Site Specialists</b>		<b>Anchor Construction</b>	
1	Mobilization for each task	ea	32	\$2,000.00	\$64,000.00	\$2,000.00	\$64,000.00	\$2,000.00	\$64,000.00
2	Clearing & grubbing	sy	2,600	\$2.75	\$7,150.00	\$7.00	\$18,200.00	\$8.40	\$21,840.00
3	Crusher run aggregate, for MOT, Stage 1	ton	750	\$33.00	\$24,750.00	\$19.80	\$14,850.00	\$53.50	\$40,125.00
4	Hot mix, for MOT, Stage 1	ton	95	\$157.00	\$14,915.00	\$125.00	\$11,875.00	\$227.00	\$21,565.00
5	Hot mix, for perm trench repairs, Stage II	ton	210	\$295.00	\$61,950.00	\$175.00	\$36,750.00	\$229.00	\$48,090.00
6	Arrow board for MOT	day	32	\$30.00	\$960.00	\$98.00	\$3,136.00	\$58.50	\$1,872.00
7	Temporary traffic signs	sf	1,700	\$18.00	\$30,600.00	\$18.00	\$30,600.00	\$18.00	\$30,600.00
8	Flagger, State certified	hr	800	\$20.00	\$16,000.00	\$22.00	\$17,600.00	\$28.50	\$22,800.00
9	Cones, for MOT	task	32	\$30.00	\$960.00	\$0.03	\$0.96	\$193.00	\$6,176.00
10	Drums, for MOT	task	32	\$30.00	\$960.00	\$8.85	\$283.20	\$345.00	\$11,040.00
11	Pre-cast temp concrete traffic barrier for MOT	lf	100	\$25.00	\$2,500.00	\$30.00	\$3,000.00	\$50.00	\$5,000.00
12	Trim existing ditches	lf	50	\$30.00	\$1,500.00	\$25.00	\$1,250.00	\$36.50	\$1,825.00
13	Class 2 excavation	cy	600	\$36.00	\$21,600.00	\$25.00	\$15,000.00	\$58.50	\$35,100.00
14	Contingent, rock excavation	cy	32	\$550.00	\$17,600.00	\$250.00	\$8,000.00	\$374.00	\$11,968.00
15	Borrow, excavation/ offsite disposal	cy	50	\$50.00	\$2,500.00	\$50.00	\$2,500.00	\$50.00	\$2,500.00
16	Select borrow	cy	850	\$25.00	\$21,250.00	\$32.00	\$27,200.00	\$68.00	\$57,800.00
17	Test pit excavation in County road paving	cy	75	\$120.00	\$9,000.00	\$120.00	\$9,000.00	\$120.00	\$9,000.00
18	Test pit excavation out of County road paving	cy	25	\$65.00	\$1,625.00	\$65.00	\$1,625.00	\$65.00	\$1,625.00
19	Class III excavation & selected backfill/offsite disposal	cy	125	\$56.00	\$7,000.00	\$56.00	\$7,000.00	\$56.00	\$7,000.00
20	Removal, existing combination curb & gutter	lf	650	\$10.00	\$6,500.00	\$9.60	\$6,240.00	\$8.30	\$5,395.00
21	Removal of existing bituminous concrete mountable curb	lf	80	\$5.00	\$400.00	\$3.20	\$256.00	\$7.50	\$600.00
22	Removal of existing sidewalk	sy	160	\$3.00	\$480.00	\$9.60	\$1,536.00	\$8.60	\$1,376.00
23	Removal of existing masonry	cy	60	\$50.00	\$3,000.00	\$263.50	\$15,810.00	\$204.00	\$12,240.00
24	Rubble disposal	cy	100	\$50.00	\$5,000.00	\$100.00	\$10,000.00	\$101.00	\$10,100.00
25	Selected backfill, #57 stone	cy	55	\$50.00	\$2,750.00	\$60.00	\$3,300.00	\$147.00	\$8,085.00
26	Selected backfill, #6	cy	110	\$50.00	\$5,500.00	\$37.00	\$4,070.00	\$142.00	\$15,620.00
27	Flowable backfill for utility cuts	cy	40	\$150.00	\$6,000.00	\$150.00	\$6,000.00	\$177.00	\$7,080.00
28	Mix #1 Concrete	cy	55	\$300.00	\$16,500.00	\$300.00	\$16,500.00	\$300.00	\$16,500.00
29	Mix #2 concrete/miscellaneous structures	cy	60	\$150.00	\$9,000.00	\$700.00	\$42,000.00	\$782.00	\$46,920.00
30	Brick masonry for miscellaneous structures	cy	30	\$550.00	\$16,500.00	\$701.00	\$21,030.00	\$1,770.00	\$53,100.00
31	Brick masonry for inlet repair	cy	20	\$550.00	\$11,000.00	\$701.00	\$14,020.00	\$2,240.00	\$44,800.00
32	Mix #3 concrete for inlet repair	cy	35	\$150.00	\$5,250.00	\$690.00	\$24,150.00	\$2,320.00	\$81,200.00
33	Remove old pipe culverts, any size	lf	200	\$30.00	\$6,000.00	\$8.00	\$1,600.00	\$89.00	\$17,800.00
34	15" RCC pipe, class - 4	lf	500	\$65.00	\$32,500.00	\$72.00	\$36,000.00	\$197.00	\$98,500.00
35	18" RCC pipe, class - 4	lf	150	\$70.00	\$10,500.00	\$78.00	\$11,700.00	\$206.00	\$30,900.00
36	24" RCC pipe, class - 4	lf	125	\$80.00	\$10,000.00	\$86.00	\$10,750.00	\$227.00	\$28,375.00
37	30" RCC pipe, class - 4	lf	24	\$100.00	\$2,400.00	\$115.00	\$2,760.00	\$277.00	\$6,648.00
38	36" RCC pipe, class - 4	lf	8	\$120.00	\$960.00	\$136.00	\$1,088.00	\$324.00	\$2,592.00
39	42" RCC pipe, class - 4	lf	8	\$160.00	\$1,280.00	\$165.00	\$1,320.00	\$384.00	\$3,072.00
40	48" RCC pipe, class - 4	lf	8	\$180.00	\$1,440.00	\$187.00	\$1,496.00	\$417.00	\$3,336.00
41	12" BCCM pipe, Type A, 14 ga.	lf	32	\$50.00	\$1,600.00	\$67.00	\$2,144.00	\$207.00	\$6,624.00
42	Core-bore/4" lateral with pre-fabricated connection	ea	2	\$1,150.00	\$2,300.00	\$300.00	\$600.00	\$730.00	\$1,460.00
43	Core-bore/6" lateral with pre-fabricated connection	ea	2	\$1,350.00	\$2,700.00	\$450.00	\$900.00	\$775.00	\$1,550.00
44	Core-bore/8" lateral with pre-fabricated connection	ea	1	\$1,500.00	\$1,500.00	\$600.00	\$600.00	\$821.00	\$821.00
45	Core-bore/12" lateral with pre-fabricated connection	ea	1	\$1,650.00	\$1,650.00	\$900.00	\$900.00	\$912.00	\$912.00
46	Core-bore/15" lateral with pre-fabricated connection	ea	3	\$2,000.00	\$6,000.00	\$1,125.00	\$3,375.00	\$1,010.00	\$3,030.00
47	Core-bore/18" lateral with pre-fabricated connection	ea	3	\$2,100.00	\$6,300.00	\$1,350.00	\$4,050.00	\$1,070.00	\$3,210.00
48	Pipe connection, 15" RCCP to Ex. 18" RCCP	ea	2	\$2,400.00	\$4,800.00	\$992.00	\$1,984.00	\$2,500.00	\$5,000.00
49	Pipe connection, 15" RCCP to Ex. 24" or larger RCCP	ea	1	\$2,600.00	\$2,600.00	\$992.00	\$992.00	\$2,550.00	\$2,550.00
50	Pipe connection, 18" RCCP to Ex. 24" RCCP	ea	2	\$2,650.00	\$5,300.00	\$1,080.00	\$2,160.00	\$2,570.00	\$5,140.00
51	Pipe connection, 18" RCCP to Ex. 27" or larger RCCP	ea	1	\$2,800.00	\$2,800.00	\$1,080.00	\$1,080.00	\$2,600.00	\$2,600.00
52	15" polyethylene pipe, type S	lf	120	\$60.00	\$7,200.00	\$66.00	\$7,920.00	\$163.00	\$19,560.00

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53	18" polyethylene pipe, type S	lf	32	\$65.00	\$2,080.00	\$71.00	\$2,272.00	\$225.00	\$7,200.00
54	24" polyethylene pipe, type S	lf	32	\$75.00	\$2,400.00	\$78.00	\$2,496.00	\$205.00	\$6,560.00
55	Standard B-48 headwall	ea	1	\$6,900.00	\$6,900.00	\$6,503.00	\$6,503.00	\$13,700.00	\$13,700.00
56	Standard Type C endwall for 15" pipe	ea	2	\$5,400.00	\$10,800.00	\$3,133.00	\$6,266.00	\$3,100.00	\$6,200.00
57	Standard Type C endwall for 18" pipe	ea	2	\$5,400.00	\$10,800.00	\$3,133.00	\$6,266.00	\$3,620.00	\$7,240.00
58	Standard Type C endwall for 24" pipe	ea	2	\$5,700.00	\$11,400.00	\$3,239.00	\$6,478.00	\$4,950.00	\$9,900.00
59	Standard Type C endwall for 30" pipe	ea	1	\$6,000.00	\$6,000.00	\$3,360.00	\$3,360.00	\$6,410.00	\$6,410.00
60	Standard Type C endwall for 36" pipe	ea	1	\$6,500.00	\$6,500.00	\$5,129.00	\$5,129.00	\$10,300.00	\$10,300.00
61	Standard Type C endwall for 42" pipe	ea	1	\$7,600.00	\$7,600.00	\$5,804.00	\$5,804.00	\$11,000.00	\$11,000.00
62	Standard Type C endwall for 48" pipe	ea	1	\$8,300.00	\$8,300.00	\$6,503.00	\$6,503.00	\$11,700.00	\$11,700.00
63	Standard Type E endwall for 15" pipe	ea	1	\$5,700.00	\$5,700.00	\$3,217.00	\$3,217.00	\$2,490.00	\$2,490.00
64	Standard Type E endwall for 18" pipe	ea	1	\$5,700.00	\$5,700.00	\$3,217.00	\$3,217.00	\$2,770.00	\$2,770.00
65	Standard Type E endwall for 24" pipe	ea	1	\$6,000.00	\$6,000.00	\$3,217.00	\$3,217.00	\$3,330.00	\$3,330.00
66	Std concrete end section for 15" RCC pipe	ea	3	\$1,500.00	\$4,500.00	\$1,181.00	\$3,543.00	\$1,150.00	\$3,450.00
67	Std concrete end section for 18" RCC pipe	ea	2	\$1,800.00	\$3,600.00	\$1,281.00	\$2,562.00	\$1,280.00	\$2,560.00
68	Std concrete end section for 24" RCC pipe	ea	1	\$2,000.00	\$2,000.00	\$1,405.00	\$1,405.00	\$1,600.00	\$1,600.00
69	Std concrete end section for 30" RCC pipe	ea	1	\$2,400.00	\$2,400.00	\$1,685.00	\$1,685.00	\$2,140.00	\$2,140.00
70	Std concrete end section for 36" RCC pipe	ea	1	\$3,000.00	\$3,000.00	\$2,129.00	\$2,129.00	\$2,820.00	\$2,820.00
71	Std concrete end section for 42" RCC pipe	ea	1	\$3,100.00	\$3,100.00	\$2,410.00	\$2,410.00	\$3,280.00	\$3,280.00
72	Std concrete end section for 48" RCC pipe	ea	1	\$3,650.00	\$3,650.00	\$2,940.00	\$2,940.00	\$4,150.00	\$4,150.00
73	Standard Type 'A-1' inlet min. depth	ea	2	\$3,500.00	\$7,000.00	\$2,882.00	\$5,764.00	\$7,020.00	\$14,040.00
74	Standard Type 'A-1' inlet vertical depth	lf	5	\$250.00	\$1,250.00	\$278.00	\$1,390.00	\$832.00	\$4,160.00
75	Standard Type 'B-1' inlet min. depth	ea	3	\$3,500.00	\$10,500.00	\$3,979.00	\$11,937.00	\$8,600.00	\$25,800.00
76	Standard Type 'B-1' inlet vertical depth	lf	5	\$400.00	\$2,000.00	\$431.00	\$2,155.00	\$936.00	\$4,680.00
77	Standard Type 'E' inlet min. depth	ea	1	\$2,500.00	\$2,500.00	\$2,641.00	\$2,641.00	\$6,160.00	\$6,160.00
78	Standard Type 'E' inlet vertical depth	lf	3	\$200.00	\$600.00	\$293.00	\$879.00	\$770.00	\$2,310.00
79	Replacement Type E curved vane grate	ea	5	\$400.00	\$2,000.00	\$426.00	\$2,130.00	\$320.00	\$1,600.00
80	Replacement Type E frame w/Type E curved vane grates	ea	20	\$1,600.00	\$32,000.00	\$1,127.00	\$22,540.00	\$842.00	\$16,840.00
81	Standard Type 'E' combination inlet min. depth	ea	6	\$2,900.00	\$17,400.00	\$3,231.00	\$19,386.00	\$6,360.00	\$38,160.00
82	Standard Type 'E' comb.-in. vertical depth	lf	12	\$300.00	\$3,600.00	\$338.00	\$4,056.00	\$798.00	\$9,576.00
83	Standard Type 'DBL-E' comb.-in. min. depth	ea	2	\$6,000.00	\$12,000.00	\$4,550.00	\$9,100.00	\$7,710.00	\$15,420.00
84	Standard Type 'DBL-E' comb.-in. vertical depth	lf	4	\$700.00	\$2,800.00	\$424.00	\$1,696.00	\$1,250.00	\$5,000.00
85	Standard Type 'S' inlet, min. depth	ea	3	\$2,000.00	\$6,000.00	\$2,592.00	\$7,776.00	\$6,160.00	\$18,480.00
86	Standard Type 'S' inlet, vertical depth	lf	6	\$200.00	\$1,200.00	\$179.00	\$1,074.00	\$770.00	\$4,620.00
87	Replacement Type 'S' curved vane grate	ea	5	\$400.00	\$2,000.00	\$431.00	\$2,155.00	\$377.00	\$1,885.00
88	Replacement Type 'S' frame with curved vane grate	ea	20	\$800.00	\$16,000.00	\$675.00	\$13,500.00	\$2,520.00	\$50,400.00
89	Standard Double 'S' inlet, min. depth	ea	1	\$3,000.00	\$3,000.00	\$3,473.00	\$3,473.00	\$6,470.00	\$6,470.00
90	Standard Double 'S' inlet, vertical depth	lf	2	\$300.00	\$600.00	\$257.00	\$514.00	\$831.00	\$1,662.00
91	Double 'S' combination inlet, min. depth	ea	5	\$3,700.00	\$18,500.00	\$2,640.00	\$13,200.00	\$6,680.00	\$33,400.00
92	Double 'S' combination inlet, vertical depth	lf	10	\$350.00	\$3,500.00	\$258.00	\$2,580.00	\$846.00	\$8,460.00
93	Standard 'Y-1' inlet, minimum depth	ea	2	\$1,500.00	\$3,000.00	\$1,969.00	\$3,938.00	\$6,410.00	\$12,820.00
94	Standard 'Y-1' inlet, w/concrete collar, min. depth	ea	1	\$2,000.00	\$2,000.00	\$2,493.00	\$2,493.00	\$9,570.00	\$9,570.00
95	Standard 'Y-1' inlet, vertical depth	lf	6	\$175.00	\$1,050.00	\$156.00	\$936.00	\$765.00	\$4,590.00

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96	Standard Type MD SHA Yard Inlet Minimum Depth	ea	1	\$2,000.00	\$2,000.00	\$2,336.00	\$2,336.00	\$3,270.00	\$3,270.00
97	Standard Type MD SHA Yard Inlet Vertical Depth	lf	2	\$150.00	\$300.00	\$155.00	\$310.00	\$748.00	\$1,496.00
98	Adjust Existing Y-1 Inlet Opening	ea	5	\$500.00	\$2,500.00	\$589.00	\$2,945.00	\$348.00	\$1,740.00
99	Adjust existing inlet	ea	7	\$500.00	\$3,500.00	\$729.00	\$5,103.00	\$461.00	\$3,227.00
100	Connection to Existing Inlet	ea	5	\$500.00	\$2,500.00	\$750.00	\$3,750.00	\$1,300.00	\$6,500.00
101	Replace E Combination Inlet Headpiece	ea	10	\$500.00	\$5,000.00	\$511.00	\$5,110.00	\$2,310.00	\$23,100.00
102	Replace Double E Combination Inlet Headpiece	ea	5	\$1,000.00	\$5,000.00	\$769.00	\$3,845.00	\$2,470.00	\$12,350.00
103	Replace S Combination Inlet Headpiece	ea	1	\$500.00	\$500.00	\$509.00	\$509.00	\$2,330.00	\$2,330.00
104	Replace Double S Combination Inlet Headpiece	ea	8	\$650.00	\$5,200.00	\$760.00	\$6,080.00	\$2,290.00	\$18,320.00
105	Replace A-1 Inlet Top Slab	ea	10	\$1,100.00	\$11,000.00	\$1,505.00	\$15,050.00	\$3,120.00	\$31,200.00
106	Replace A-2 Inlet Top Slab	ea	1	\$1,500.00	\$1,500.00	\$1,617.00	\$1,617.00	\$3,350.00	\$3,350.00
107	Replace B-1 Inlet Top Slab	ea	5	\$1,500.00	\$7,500.00	\$1,731.00	\$8,655.00	\$3,350.00	\$16,750.00
108	Replace B-2 Inlet Top Slab	ea	1	\$2,000.00	\$2,000.00	\$1,842.00	\$1,842.00	\$3,320.00	\$3,320.00
109	Standard Drain Manhole Type A - Minimum Depth	ea	2	\$2,500.00	\$5,000.00	\$1,926.00	\$3,852.00	\$6,080.00	\$12,160.00
110	Standard Drain Manhole Type A - Vertical Depth	lf	4	\$200.00	\$800.00	\$152.00	\$608.00	\$722.00	\$2,888.00
111	Manhole Type B - Minimum Depth	ea	5	\$3,300.00	\$16,500.00	\$3,256.00	\$16,280.00	\$6,570.00	\$32,850.00
112	Manhole Type B - Vertical Depth	lf	10	\$300.00	\$3,000.00	\$209.00	\$2,090.00	\$832.00	\$8,320.00
113	Manhole 48" Type A - Min Depth	ea	2	\$2,500.00	\$5,000.00	\$2,319.00	\$4,638.00	\$6,110.00	\$12,220.00
114	Manhole 48" Type A - Vertical Depth	lf	10	\$200.00	\$2,000.00	\$157.00	\$1,570.00	\$722.00	\$7,220.00
115	Base -60" Dia.-Minimum Depth	ea	1	\$3,500.00	\$3,500.00	\$3,040.00	\$3,040.00	\$6,900.00	\$6,900.00
116	Precast Type C Manhole Base-60" Dia. - Vertical Depth	lf	1	\$500.00	\$500.00	\$240.00	\$240.00	\$1,130.00	\$1,130.00
117	Base-72" Dia. - Minimum Depth	ea	1	\$5,000.00	\$5,000.00	\$3,253.00	\$3,253.00	\$7,730.00	\$7,730.00
118	Precast Type C Manhole Base-72" Dia. - Vertical Depth	lf	1	\$500.00	\$500.00	\$298.00	\$298.00	\$5,280.00	\$5,280.00
119	Riser -48" Dia. - Vertical Depth	lf	5	\$350.00	\$1,750.00	\$167.00	\$835.00	\$1,030.00	\$5,150.00
120	Connection to Existing Manhole	ea	8	\$1,000.00	\$8,000.00	\$750.00	\$6,000.00	\$1,300.00	\$10,400.00
121	Subgrade Drains	lf	24	\$30.00	\$720.00	\$5.50	\$132.00	\$61.50	\$1,476.00
122	6" perforated Pipe Underdrains	lf	100	\$20.00	\$2,000.00	\$16.50	\$1,650.00	\$58.50	\$5,850.00
123	Aggregate Backfill for Underdrain	cy	12	\$40.00	\$480.00	\$40.00	\$480.00	\$117.00	\$1,404.00
124	Washed Concrete Sand	ton	6	\$100.00	\$600.00	\$75.00	\$450.00	\$95.50	\$573.00
125	3" Plastic Sewer Pipe	lf	10	\$75.00	\$750.00	\$7.50	\$75.00	\$166.00	\$1,660.00
126	4" Dia. House, Garage, Etc. Connections (Plastic Pipe)	lf	32	\$40.00	\$1,280.00	\$16.00	\$512.00	\$150.00	\$4,800.00
127	Erosion & Sediment Control Original Excavation	cy	50	\$15.00	\$750.00	\$30.00	\$1,500.00	\$101.00	\$5,050.00
128	Erosion & Sediment Control Cleanout Excavation	cy	25	\$25.00	\$625.00	\$25.00	\$625.00	\$160.00	\$4,000.00
129	2" to 3" Stone for Sediment Control	ton	25	\$30.00	\$750.00	\$59.00	\$1,475.00	\$54.00	\$1,350.00
130	Swale Inlet Protection	ea	8	\$250.00	\$2,000.00	\$180.00	\$1,440.00	\$148.00	\$1,184.00
131	Curb Inlet Protection	ea	20	\$250.00	\$5,000.00	\$180.00	\$3,600.00	\$198.00	\$3,960.00
132	Stabilized Construction Entrance for Sediment Control	sy	400	\$15.00	\$6,000.00	\$32.50	\$13,000.00	\$25.00	\$10,000.00
133	Safety Fence for Sediment Control	lf	1,500	\$5.00	\$7,500.00	\$3.80	\$5,700.00	\$3.90	\$5,850.00
134	Silt Fence for Sediment Control	lf	200	\$10.00	\$2,000.00	\$3.80	\$760.00	\$2.40	\$480.00
135	Super Silt Fence for Sediment Control	lf	100	\$30.00	\$3,000.00	\$21.50	\$2,150.00	\$10.50	\$1,050.00
136	4" to 8" Riprap for Sediment Control	ton	5	\$75.00	\$375.00	\$85.50	\$427.50	\$164.00	\$820.00
137	9" Gabion	cy	25	\$500.00	\$12,500.00	\$299.00	\$7,475.00	\$873.00	\$21,825.00
138	12" Gabion	cy	100	\$500.00	\$50,000.00	\$299.00	\$29,900.00	\$873.00	\$87,300.00
139	18" Gabion	cy	3	\$500.00	\$1,500.00	\$299.00	\$897.00	\$784.00	\$2,352.00
140	36" Gabion	cy	120	\$250.00	\$30,000.00	\$299.00	\$35,880.00	\$992.00	\$119,040.00
141	Class O Rip rap	ton	50	\$40.00	\$2,000.00	\$87.00	\$4,350.00	\$144.00	\$7,200.00
142	Class I Rip rap	ton	100	\$75.00	\$7,500.00	\$87.00	\$8,700.00	\$142.00	\$14,200.00
143	Class II Rip rap	ton	200	\$50.00	\$10,000.00	\$127.00	\$25,400.00	\$162.00	\$32,400.00
144	Class III Rip rap	ton	50	\$60.00	\$3,000.00	\$161.00	\$8,050.00	\$155.00	\$7,750.00
145	Imbricated Rip rap	ton	2	\$2,500.00	\$5,000.00	\$345.00	\$690.00	\$287.00	\$574.00
146	Aggregate filter blanket, 6" depth	sy	25	\$15.00	\$375.00	\$12.00	\$300.00	\$116.00	\$2,900.00

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147	Geotextile Class C	sy	400	\$10.00	\$4,000.00	\$3.20	\$1,280.00	\$3.40	\$1,360.00
148	Full Depth Saw-Cut	lf	2,500	\$4.00	\$10,000.00	\$3.20	\$8,000.00	\$5.20	\$13,000.00
149	7" Concrete Paving on 4" Aggregate Base Course, Mix #6	sy	40	\$125.00	\$5,000.00	\$125.00	\$5,000.00	\$122.00	\$4,880.00
150	7" Concrete Paving for Entrances & Driveways, Mix #6	sy	20	\$125.00	\$2,500.00	\$125.00	\$2,500.00	\$126.00	\$2,520.00
151	Joint Sealer	lf	100	\$10.00	\$1,000.00	\$1.00	\$100.00	\$4.70	\$470.00
152	Calcium Chloride	ton	1	\$500.00	\$500.00	\$0.01	\$0.01	\$652.00	\$652.00
153	Bituminous Concrete for Mountable Curb	lf	100	\$15.00	\$1,500.00	\$15.00	\$1,500.00	\$23.00	\$2,300.00
154	7" Conc. Comb. Curb & Gutter, Mix 2 / 3" Aggr. Sub-Base	lf	500	\$50.00	\$25,000.00	\$35.00	\$17,500.00	\$26.00	\$13,000.00
155	7" Conc. Comb. Curb & Gutter, Mix #6 /3" Graded Aggr. Base	lf	100	\$50.00	\$5,000.00	\$35.00	\$3,500.00	\$27.50	\$2,750.00
156	MD. Std. Type A Comb. C&G 12" Gutter, 8" Depth, Mix #2	lf	10	\$50.00	\$500.00	\$41.75	\$417.50	\$76.00	\$760.00
157	MD. Std. Type A Comb. C&G 12" Gutter, Mix 6 /3" AG	lf	100	\$50.00	\$5,000.00	\$35.00	\$3,500.00	\$76.00	\$7,600.00
158	4" Concrete Paving for Sidewalks, Mix #2	sf	2,500	\$8.00	\$20,000.00	\$8.00	\$20,000.00	\$7.40	\$18,500.00
159	Placing Furnished Topsoil for Grading Adjustment	cy	50	\$20.00	\$1,000.00	\$50.00	\$2,500.00	\$119.00	\$5,950.00
160	Placing Furnished Topsoil, 2"	sy	250	\$3.00	\$750.00	\$3.00	\$750.00	\$17.50	\$4,375.00
161	Placing Furnished Topsoil, 4"	sy	200	\$5.00	\$1,000.00	\$5.00	\$1,000.00	\$11.50	\$2,300.00
162	Temporary Seeding	lb	12	\$10.00	\$120.00	\$124.00	\$1,488.00	\$44.50	\$534.00
163	Temporary Mulching	sy	1,000	\$2.00	\$2,000.00	\$1.00	\$1,000.00	\$2.00	\$2,000.00
164	Seeding	sy	12,000	\$2.00	\$24,000.00	\$0.50	\$6,000.00	\$2.50	\$30,000.00
165	Wildflower seeding	lb	5	\$150.00	\$750.00	\$100.00	\$500.00	\$65.00	\$325.00
166	Sodding	sy	1,800	\$10.00	\$18,000.00	\$5.00	\$9,000.00	\$10.50	\$18,900.00
167	Soil stabilization matting	sy	15	\$15.00	\$225.00	\$3.20	\$48.00	\$3.10	\$46.50
168	6" ductile iron pipe & fittings	lf	50	\$50.00	\$2,500.00	\$89.00	\$4,450.00	\$243.00	\$12,150.00
169	8" ductile iron pipe & fittings	lf	100	\$60.00	\$6,000.00	\$108.00	\$10,800.00	\$298.00	\$29,800.00
170	6" valve & vault, vertical	ea	1	\$2,000.00	\$2,000.00	\$1,399.00	\$1,399.00	\$4,540.00	\$4,540.00
171	8" valve & vault, vertical	ea	2	\$2,500.00	\$5,000.00	\$1,640.00	\$3,280.00	\$4,950.00	\$9,900.00
172	6" x 6" tapping sleeve, valve,	ea	1	\$5,000.00	\$5,000.00	\$4,836.00	\$4,836.00	\$11,600.00	\$11,600.00
173	8" x 6" tapping sleeve, valve,	ea	1	\$5,200.00	\$5,200.00	\$4,919.00	\$4,919.00	\$12,500.00	\$12,500.00
174	8" x 8" tapping sleeve, valve,	ea	2	\$5,500.00	\$11,000.00	\$5,211.00	\$10,422.00	\$12,500.00	\$25,000.00
175	8" valve & roadway box	ea	2	\$1,600.00	\$3,200.00	\$1,175.00	\$2,350.00	\$4,470.00	\$8,940.00
176	Relocation of water meter, 5/8"	ea	3	\$750.00	\$2,250.00	\$1,002.00	\$3,006.00	\$2,500.00	\$7,500.00
177	Relocation of water meter, 3/4"	ea	3	\$750.00	\$2,250.00	\$1,037.00	\$3,111.00	\$2,500.00	\$7,500.00
178	Relocation of water meter, 1"	ea	1	\$1,000.00	\$1,000.00	\$1,162.00	\$1,162.00	\$2,500.00	\$2,500.00
179	3/4" water service tap & corporation	ea	3	\$500.00	\$1,500.00	\$462.00	\$1,386.00	\$6,510.00	\$19,530.00
180	1" water service tap & corporation	ea	1	\$550.00	\$550.00	\$604.00	\$604.00	\$6,660.00	\$6,660.00
181	3/4" copper water service & fittings	ea	10	\$25.00	\$250.00	\$57.00	\$570.00	\$6,510.00	\$65,100.00
182	1" copper water service & fittings	ea	3	\$50.00	\$150.00	\$68.00	\$204.00	\$6,660.00	\$19,980.00
183	3/4" water service/single 5/8" meter & vault	ea	2	\$500.00	\$1,000.00	\$1,010.00	\$2,020.00	\$3,280.00	\$6,560.00
184	3/4" water service/twin 5/8" meters & vault	ea	1	\$800.00	\$800.00	\$1,111.00	\$1,111.00	\$3,410.00	\$3,410.00
185	1" water service/single 3/4" meter & vault	ea	1	\$1,000.00	\$1,000.00	\$1,156.00	\$1,156.00	\$3,460.00	\$3,460.00
186	1" water service/single 1" meter & vault	ea	1	\$1,000.00	\$1,000.00	\$1,297.00	\$1,297.00	\$3,460.00	\$3,460.00
187	6" fire hydrant, furnish & install	ea	3	\$3,200.00	\$9,600.00	\$3,822.00	\$11,466.00	\$7,910.00	\$23,730.00
188	Relocation of existing fire hydrant, 6"	ea	5	\$1,500.00	\$7,500.00	\$2,000.00	\$10,000.00	\$6,110.00	\$30,550.00
189	6" plug & clamp, furnish & install	ea	2	\$1,200.00	\$2,400.00	\$303.00	\$606.00	\$3,080.00	\$6,160.00
190	8" plug & clamp, furnish & install	ea	4	\$1,300.00	\$5,200.00	\$355.00	\$1,420.00	\$3,110.00	\$12,440.00
191	Relocation of Existing Water Meter & vault	ea	5	\$0.01	\$0.05	\$585.00	\$2,925.00	\$10,200.00	\$51,000.00
192	Replace Existing Water Meter Vault	ea	5	\$0.01	\$0.05	\$568.00	\$2,840.00	\$19,100.00	\$95,500.00
193	30" RCSP - Class 3	lf	50	\$100.00	\$5,000.00	\$302.00	\$15,100.00	\$423.00	\$21,150.00
194	33" RCSP - Class 3	lf	12	\$150.00	\$1,800.00	\$353.00	\$4,236.00	\$503.00	\$6,036.00
195	36" RCSP - Class 3	lf	12	\$180.00	\$2,160.00	\$389.00	\$4,668.00	\$537.00	\$6,444.00
196	42" RCSP - Class 3	lf	12	\$190.00	\$2,280.00	\$330.00	\$3,960.00	\$730.00	\$8,760.00
197	48" RCSP - Class 3	lf	12	\$210.00	\$2,520.00	\$405.00	\$4,860.00	\$861.00	\$10,332.00
198	54" RCSP - Class 3	lf	12	\$250.00	\$3,000.00	\$508.00	\$6,096.00	\$1,040.00	\$12,480.00
199	6" ductile iron pipe & fittings, Class 52	lf	150	\$75.00	\$11,250.00	\$126.00	\$18,900.00	\$243.00	\$36,450.00

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200	8" ductile iron pipe & fittings, Class 52	lf	600	\$150.00	\$90,000.00	\$131.00	\$78,600.00	\$298.00	\$178,800.00
201	10" ductile iron pipe & fittings, Class 52	lf	50	\$150.00	\$7,500.00	\$142.00	\$7,100.00	\$325.00	\$16,250.00
202	12" ductile iron pipe & fittings, Class 52	lf	50	\$200.00	\$10,000.00	\$153.00	\$7,650.00	\$381.00	\$19,050.00
203	20" ductile iron pipe & fittings, Class 52	lf	50	\$210.00	\$10,500.00	\$232.00	\$11,600.00	\$491.00	\$24,550.00
204	24" ductile iron pipe & fittings, Class 52	lf	50	\$250.00	\$12,500.00	\$260.00	\$13,000.00	\$616.00	\$30,800.00
205	4" PVC riser pipe & plug/cap	vf	20	\$30.00	\$600.00	\$20.00	\$400.00	\$107.00	\$2,140.00
206	4" PVC pipe	lf	120	\$30.00	\$3,600.00	\$25.00	\$3,000.00	\$183.00	\$21,960.00
207	6" PVC pipe	lf	120	\$30.00	\$3,600.00	\$87.00	\$10,440.00	\$185.00	\$22,200.00
208	8" PVC pipe	lf	1,500	\$60.00	\$90,000.00	\$87.00	\$130,500.00	\$190.00	\$285,000.00
209	10" PVC pipe	lf	400	\$65.00	\$26,000.00	\$91.00	\$36,400.00	\$195.00	\$78,000.00
210	12" PVC pipe	lf	400	\$70.00	\$28,000.00	\$98.00	\$39,200.00	\$200.00	\$80,000.00
211	15" PVC pipe	lf	30	\$150.00	\$4,500.00	\$98.00	\$2,940.00	\$215.00	\$6,450.00
212	18" PVC pipe	lf	30	160	\$4,800.00	\$118.00	\$3,540.00	\$228.00	\$6,840.00
213	21" PVC pipe	lf	20	\$170.00	\$3,400.00	\$123.00	\$2,460.00	\$256.00	\$5,120.00
214	24" PVC pipe	lf	20	180	\$3,600.00	\$138.00	\$2,760.00	\$272.00	\$5,440.00
215	27" PVC pipe	lf	10	210	\$2,100.00	\$174.00	\$1,740.00	\$305.00	\$3,050.00
216	30" PVC pipe	lf	10	250	\$2,500.00	\$205.00	\$2,050.00	\$315.00	\$3,150.00
217	Std. San.MH-48" ins. Diameter	vf	15	300	\$4,500.00	\$1,244.00	\$18,660.00	\$857.00	\$12,855.00
218	Std. San.MH-60" ins. Diameter	vf	8	400	\$3,200.00	\$858.00	\$6,864.00	\$1,100.00	\$8,800.00
219	Std. San. heavy traffic manhole frame & cover	ea	15	300	\$4,500.00	\$722.00	\$10,830.00	\$630.00	\$9,450.00
220	Std. San. Watertight manhole frame & cover	ea	5	1500	\$7,500.00	\$829.00	\$4,145.00	\$1,850.00	\$9,250.00
221	Std. San. Drop conn. Type B - 8"	ea	3	1800	\$5,400.00	\$1,966.00	\$5,898.00	\$5,730.00	\$17,190.00
222	6" D.L. pipe for stach house connection	vf	25	300	\$7,500.00	\$228.00	\$5,700.00	\$197.00	\$4,925.00
223	Soil Reinforcement Fabric	sy	100	5	\$500.00	\$24.00	\$2,400.00	\$7.50	\$750.00
224	Remove & Replace Ex. Concrete Sidewalk	sf	150	10	\$1,500.00	\$12.00	\$1,800.00	\$12.50	\$1,875.00
225	Remove & Replace Ex. Curb & Gutter	lf	75	50	\$3,750.00	\$50.00	\$3,750.00	\$36.50	\$2,737.50
226	1-1/2" Low Press. Sewer Pipe & Fittings	lf	300	25	\$7,500.00	\$48.00	\$14,400.00	\$152.00	\$45,600.00
227	2" Low Press. Sewer Pipe & Fittings	lf	1,500	30	\$45,000.00	\$51.00	\$76,500.00	\$158.00	\$237,000.00
228	3" Low Press. Sewer Pipe & Fittings	lf	750	35	\$26,250.00	\$56.00	\$42,000.00	\$161.00	\$120,750.00
229	4" Low Press. Sewer Pipe & Fittings	lf	150	40	\$6,000.00	\$61.00	\$9,150.00	\$163.00	\$24,450.00
230	Terminal Flushing Conn. & Manhole	ea	2	4000	\$8,000.00	\$3,062.00	\$6,124.00	\$8,980.00	\$17,960.00
231	Inline Cleanout/Flushing Conn. & Manhole	ea	2	5000	\$10,000.00	\$3,196.00	\$6,392.00	\$8,980.00	\$17,960.00
232	Comb. Flushing Conn. Air Vac. Release Valve	ea	2	7000	\$14,000.00	\$7,479.00	\$14,958.00	\$8,980.00	\$17,960.00
233	Press. Sewer Conn. to Gravity Manhole	ea	2	2500	\$5,000.00	\$2,536.00	\$5,072.00	\$7,850.00	\$15,700.00
234	Electrical upgrade	ea	5	3000	\$15,000.00	\$2,431.00	\$12,155.00	\$13,000.00	\$65,000.00
235	Maintenance of flow, sanitary sewer	day	50	600	\$30,000.00	\$500.00	\$25,000.00	\$2,880.00	\$144,000.00
236	Remove & dispose of pipe, any size	lf	1,000	30	\$30,000.00	\$10.00	\$10,000.00	\$131.00	\$131,000.00
237	Reconnect existing 6" house connection	ea	25	300	\$7,500.00	\$250.00	\$6,250.00	\$1,420.00	\$35,500.00
238	Simplex grinder pump, depth to 7'	ea	5	12500	\$62,500.00	\$12,000.00	\$60,000.00	\$16,500.00	\$82,500.00
239	Simplex grinder pump, depth from 7' - 10'	ea	8	13500	\$108,000.00	\$12,800.00	\$102,400.00	\$19,000.00	\$152,000.00
240	Duplex grinder pump, depth to 7'	ea	3	18000	\$54,000.00	\$18,690.00	\$56,070.00	\$23,200.00	\$69,600.00
241	Duplex grinder pump, depth from 7'-10'	ea	2	19000	\$38,000.00	\$19,240.00	\$38,480.00	\$25,700.00	\$51,400.00
242	Alarm panel 7 disconnect panel & wiring	ea	12	1800	\$21,600.00	\$1,850.00	\$22,200.00	\$5,860.00	\$70,320.00
243	Laborer, Skilled SD Cut & Cover, M-F, 8AM-5PM	hr	1,200	40	\$48,000.00	\$30.00	\$36,000.00	\$39.00	\$46,800.00
244	Laborer, Unskilled SD Cut & Cover, M-F 8AM - 5PM	hr	1,200	32	\$38,400.00	\$28.00	\$33,600.00	\$34.50	\$41,400.00
245	Operator, equip. SD Cut & Cover, M-F, 8AM-5PM	hr	1,200	50	\$60,000.00	\$45.00	\$54,000.00	\$63.50	\$76,200.00
246	Driver, Truck, SD Cut & Cover, M-F 8AM - 5PM	hr	1,200	50	\$60,000.00	\$45.00	\$54,000.00	\$36.50	\$43,800.00
247	Foreman, SD Cut & Cover, M-F 8AM - 5PM	hr	1,200	85	\$102,000.00	\$72.00	\$86,400.00	\$81.50	\$97,800.00
248	Materials, SD Cut & Cover, Cost X Multiplier	mult	200,000	1.15	\$230,000.00	\$1.20	\$240,000.00	\$1.15	\$230,000.00

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249	Equip., Rental, Book for Constr. Eqpt., Vol. 2	mult	240,000	1	\$240,000.00	\$1.00	\$240,000.00	\$1.00	\$240,000.00
250	Differential, Special Wk. Hrs., M-F 5PM-7AM, Wkends, Holiday	mult	29,220	1	\$29,220.00	\$1.50	\$43,830.00	\$1.33	\$38,862.60
251	Differential, Special Work Hrs, M-F 9AM-3PM, No Holidays	mult	118,260	1	\$118,260.00	\$1.50	\$177,390.00	\$1.40	\$165,564.00
				<b>Total:</b>	<b>\$3,011,200.10</b>	<b>Total:</b>	<b>\$3,114,932.17</b>	<b>Total:</b>	<b>\$5,794,877.60</b>